

FIG. 1a

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From FIG. 1a

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PROCESSING THE SYSTEM OF  $N \times M$  EQUATIONS,  
IN EACH OF WHICH THE EM RADIATION  
VALUE  $V$  IN A PARTICULAR SPECTRAL BAND  $\Delta_i$   
IS A FUNCTION OF TEMPERATURE  $T$  AND  
EMISSIVITY  $\epsilon$  OF THE SAMPLE

$$V_{T_j}^i = f(T_j, \epsilon_i)$$

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OBTAINING  $M$  SUCCESSIVE VALUES OF  
TEMPERATURE OF THE OBJECT

$\langle T_1 \dots T_j \dots T_M \rangle$ , AND

OBTAINING  $N$  VALUES OF EMISSIVITIES

$\langle \epsilon_1 \dots \epsilon_i \dots \epsilon_N \rangle$  FOR  $N$  SPECTRAL BANDS,  
RESPECTIVELY

FIG. 1b

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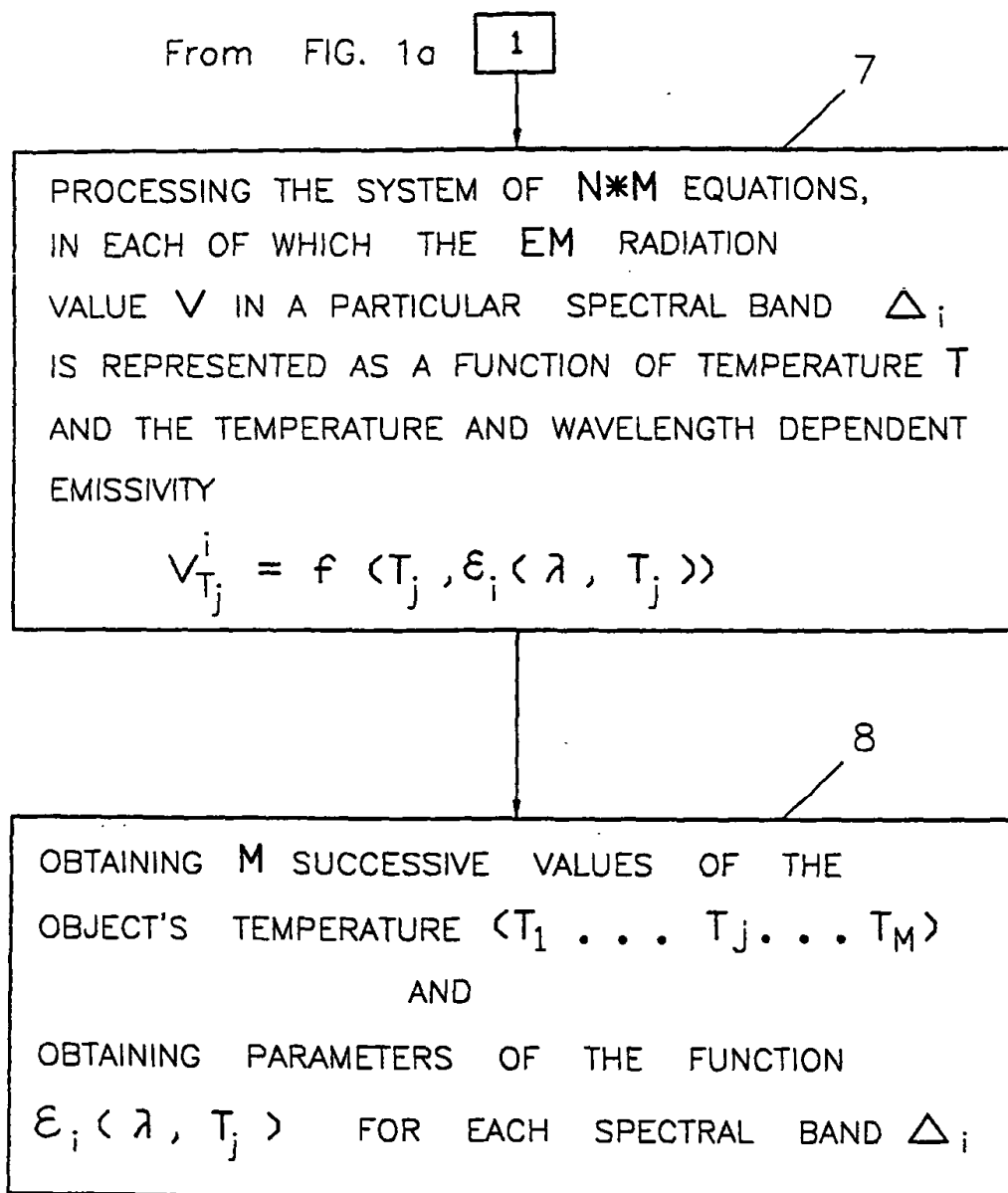


FIG. 2

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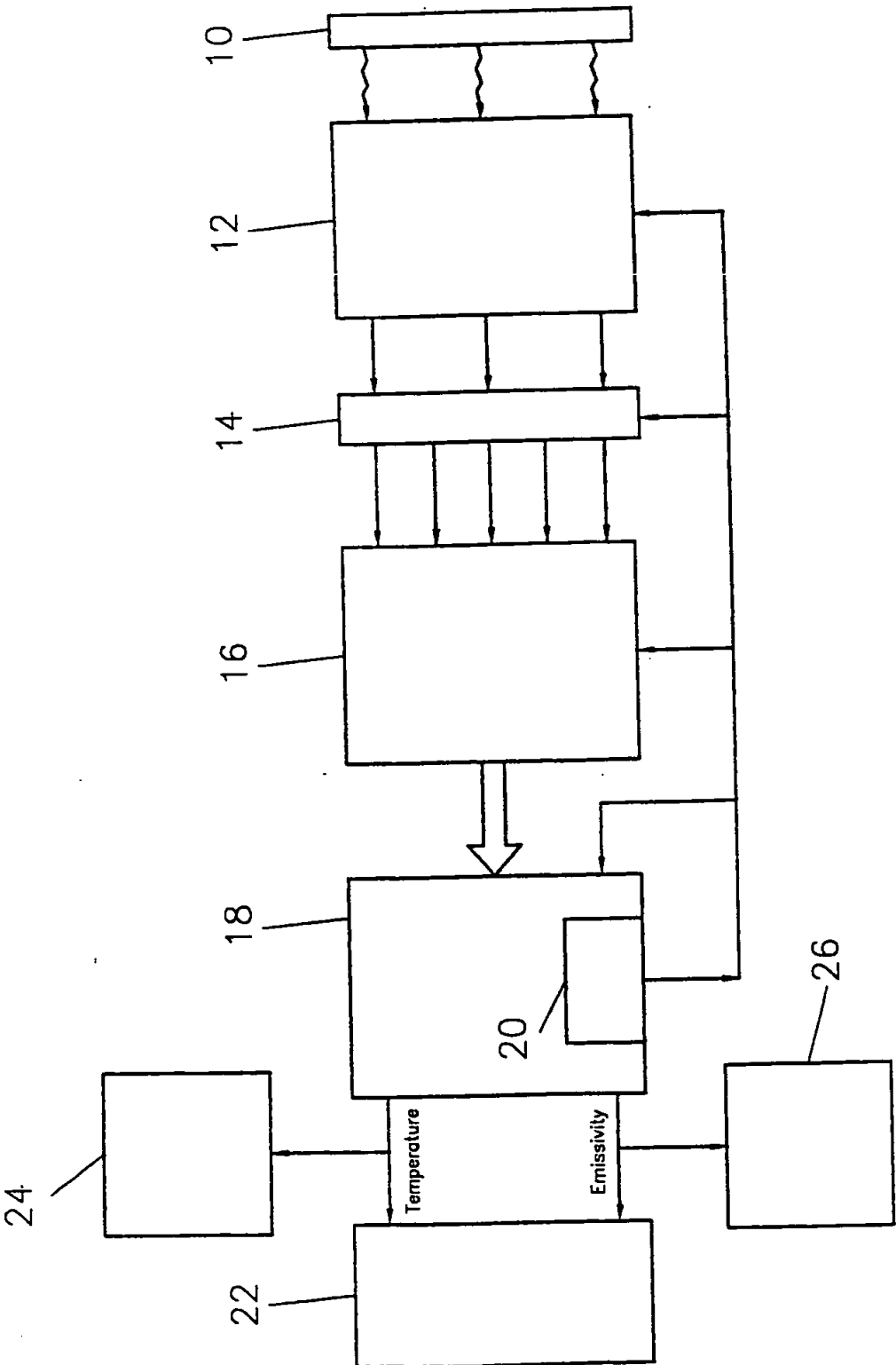


FIG. 3

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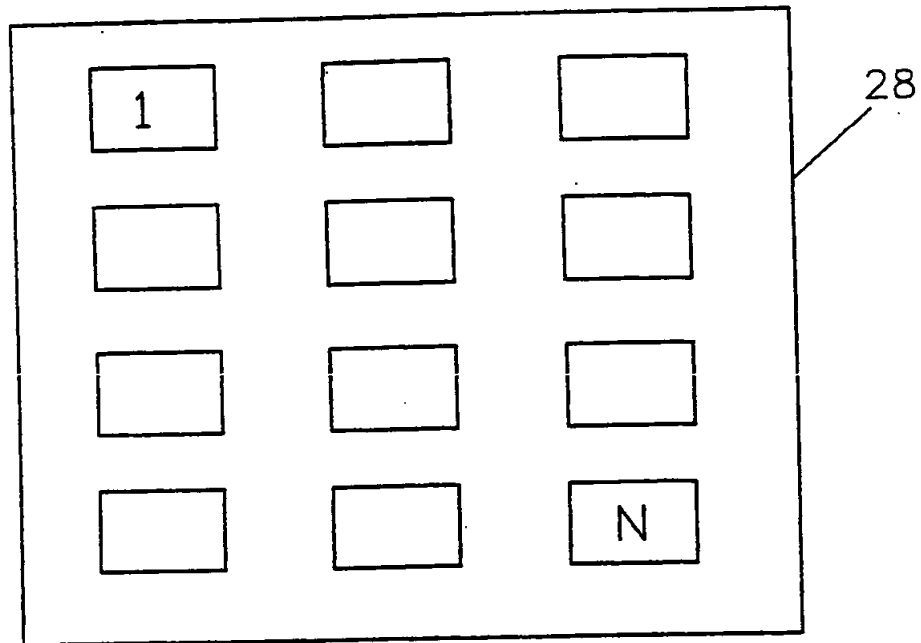


FIG. 4a

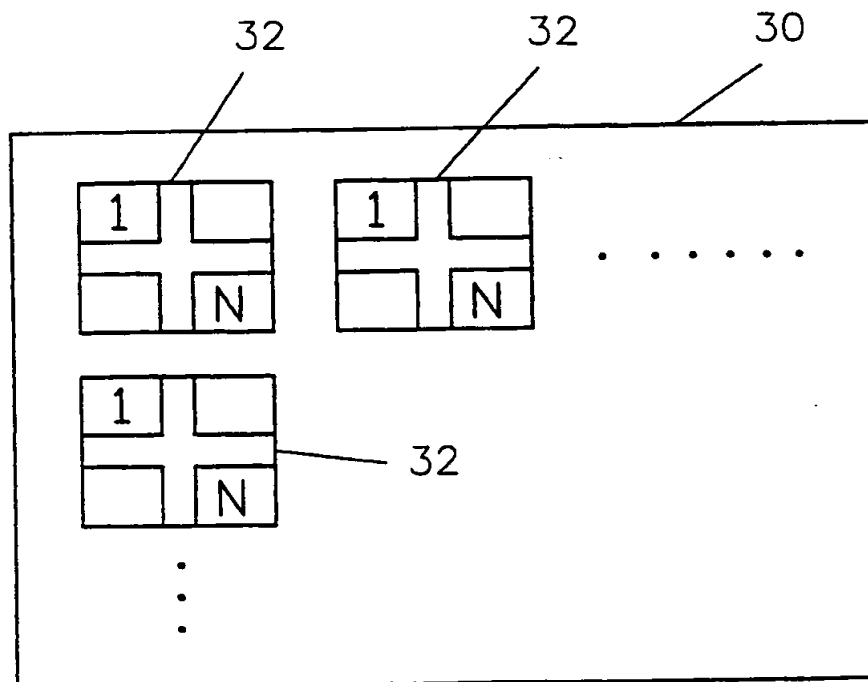


FIG. 4b

SUBSTITUTE SHEET (RULE 26)

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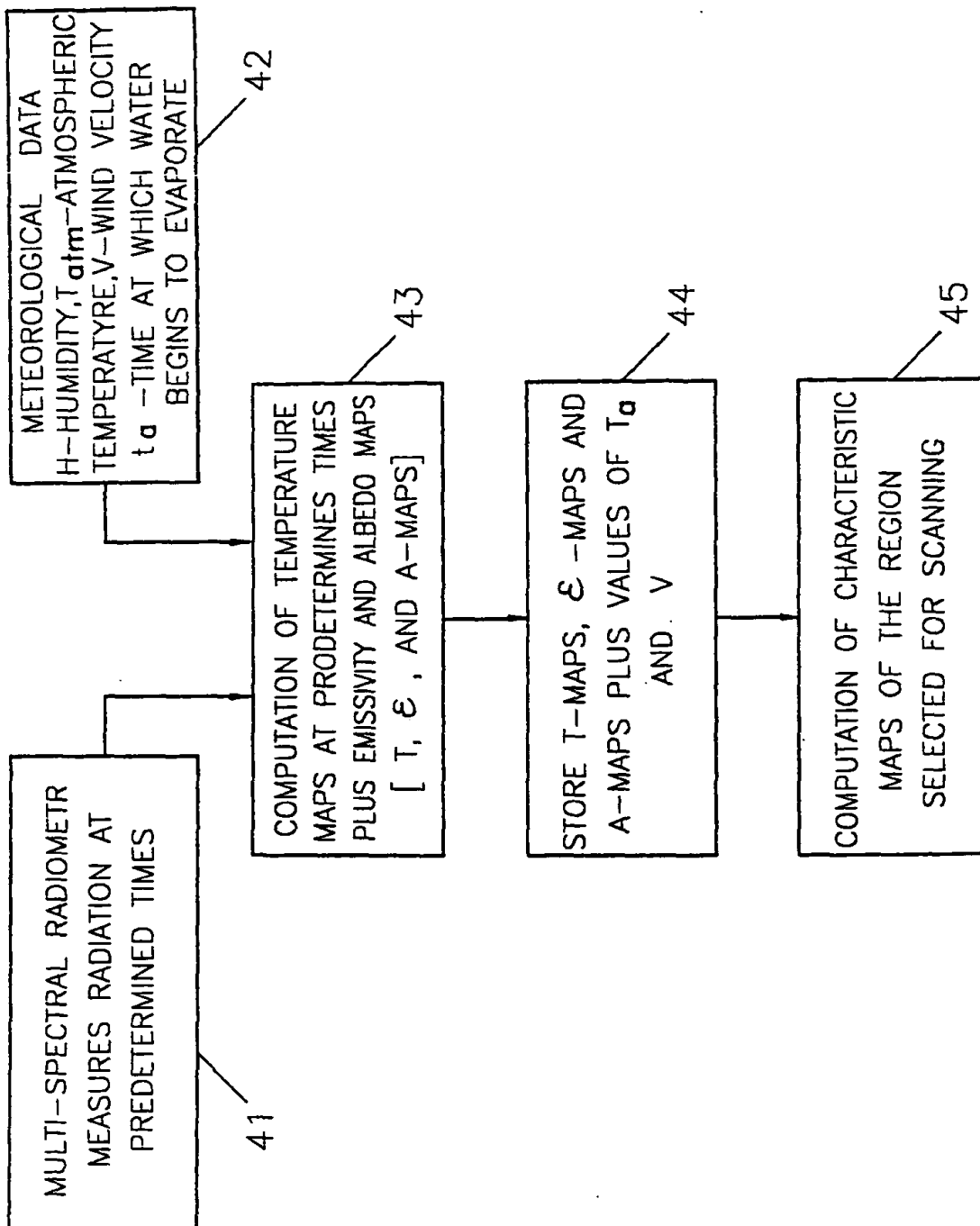
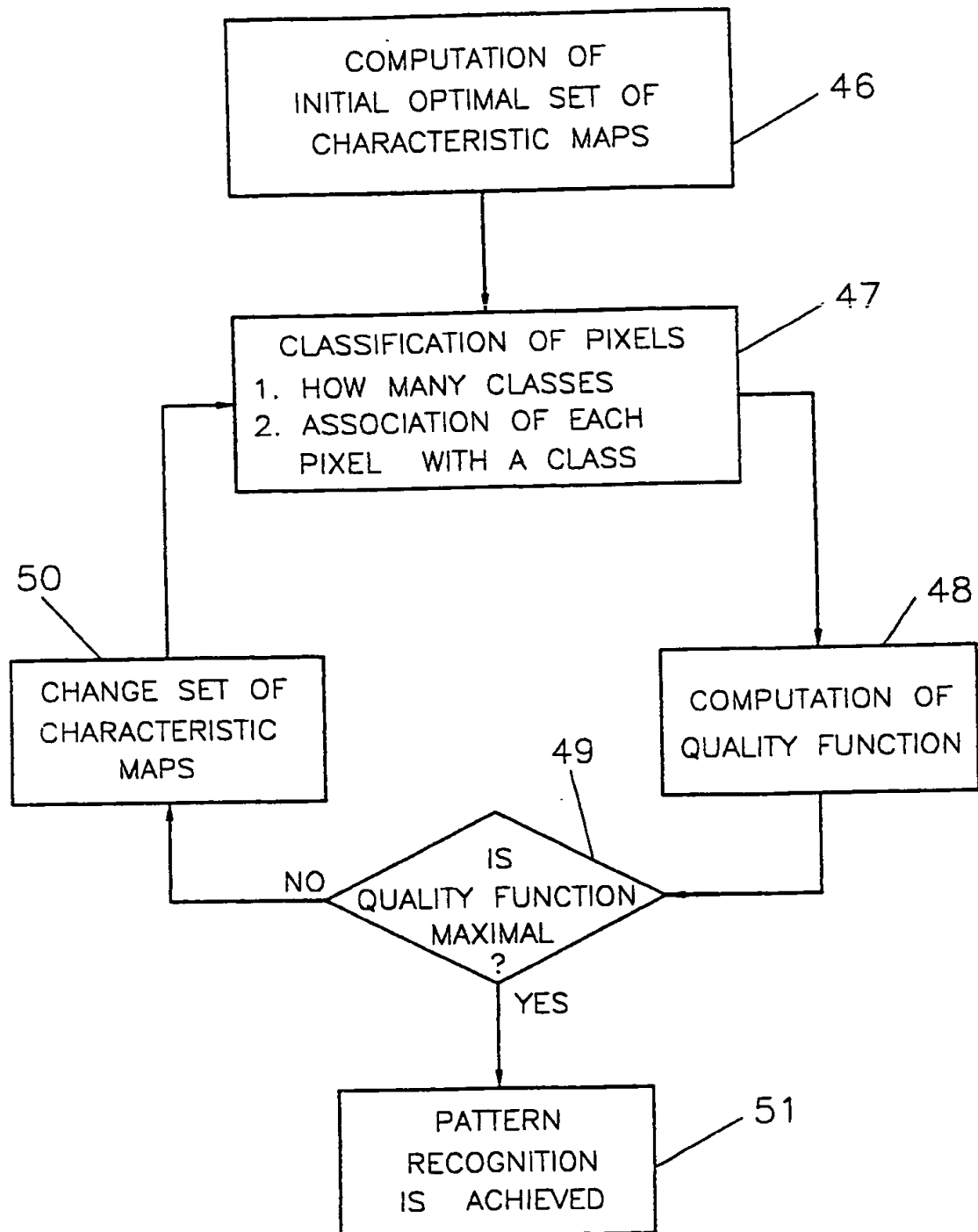


FIG. 5

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**FIG. 6**  
**SUBSTITUTE SHEET (RULE 26)**

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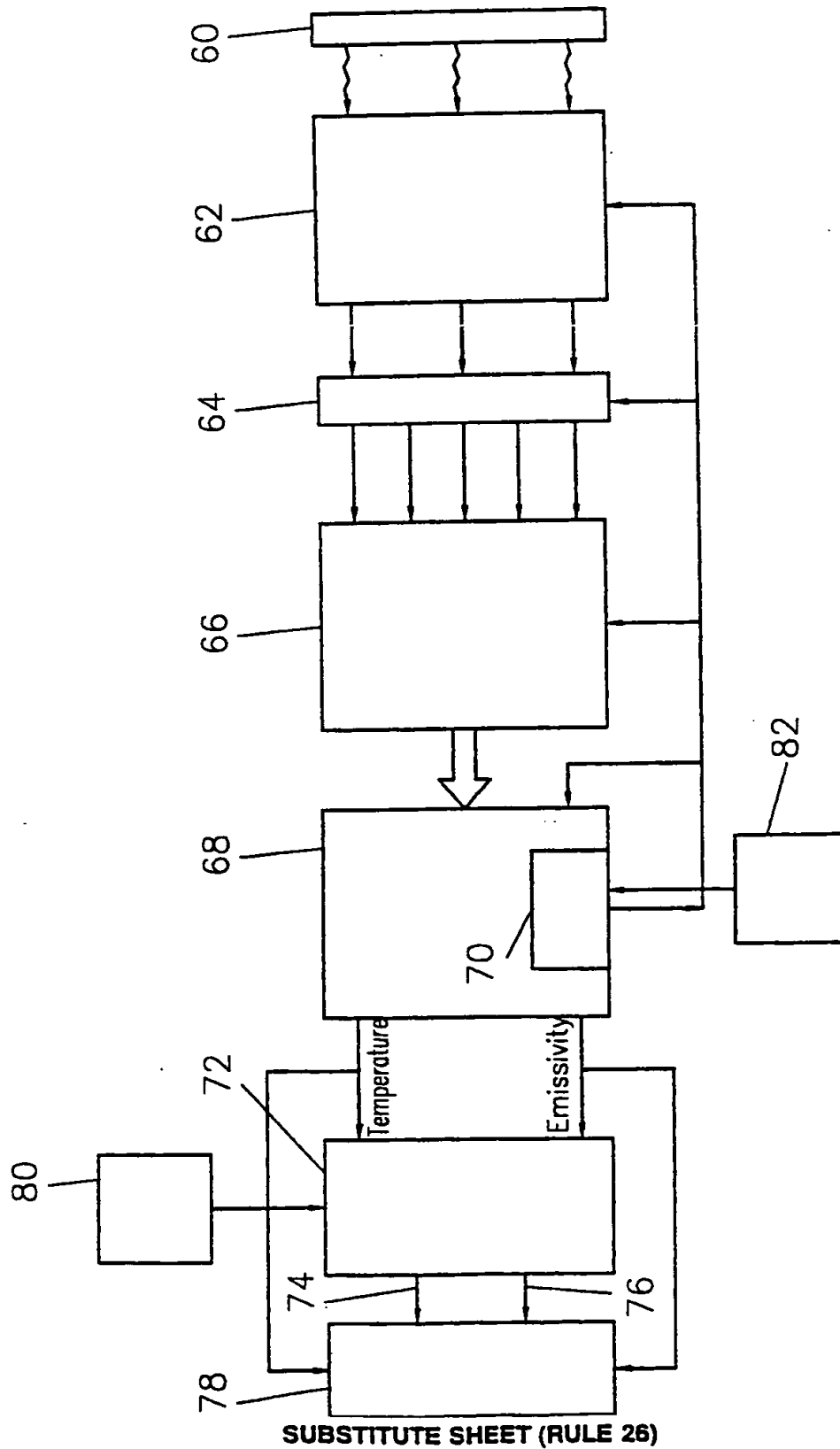


FIG. 7